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Appl. No. 10/526,342
AMENDMENT dated 10/23/07

Attorney Docket No.: DN 99-009

OCT 23 2007

In the Claims:

Please cancel claims 3 and 11.

1. (Currently Amended) A process for producing precipitated calcium carbonate, comprising the steps of:

(a) providing calcium hydroxide having at least about 92 weight percent solids; and
(b) carbonating the calcium hydroxide with carbon dioxide gas and simultaneously comminuting for a time sufficient to produce a calcium carbonate having at least about a 90 weight percent conversion to calcium carbonate and having a solids concentration of at least about 92 weight percent.

2. (Canceled)

3. (Canceled)

4. (Previously Presented) The process for producing precipitated calcium carbonate according to claim 1, wherein the calcium hydroxide provided in step (a) is produced by the steps comprising:

- i) mixing calcium oxide and water in amounts sufficient to react to form calcium hydroxide substantially free of water; and
- ii) maintaining the mixture at an elevated temperature for a time sufficient to hydrate the calcium oxide to form calcium hydroxide having at least about 92 weight percent solids.

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5. (Original) The process according to claim 4, wherein the step of maintaining the mixture at an elevated temperature is performed at a temperature of up to about 600 degrees Fahrenheit for a time sufficient to hydrate the calcium oxide to form calcium hydroxide having at least about a 95 weight percent conversion to calcium hydroxide.

6. (Original) The process according to claim 5, wherein the step of maintaining the mixture at an elevated temperature is performed for a time sufficient to hydrate the calcium oxide to form calcium hydroxide having at least about a 98 weight percent conversion to calcium hydroxide.

7. (Previously Presented) The process according to claim 1, wherein the steps of carbonating and simultaneously comminuting are performed until at least a 95 weight percent conversion to calcium carbonate is achieved.

8. (Previously Presented) The process according to claim 1, wherein the steps of carbonating and simultaneously comminuting are performed until at least a 97 weight percent conversion to calcium carbonate is achieved.

9. (Currently Amended) A process for producing precipitated calcium carbonate, comprising the steps of:

- (a) providing calcium hydroxide having at least about 92 weight percent solids;
- (b) carbonating the calcium hydroxide with carbon dioxide gas for a time sufficient to at least partially convert the calcium hydroxide to calcium carbonate;

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(c) comminuting the at least partially converted calcium hydroxide; and
(d) repeating alternating steps of carbonating and comminuting for a time sufficient to substantially convert the calcium hydroxide to calcium carbonate having at least about a 90 weight percent conversion to calcium carbonate and having a solids concentration of at least about 92 weight percent.

10. (Canceled)

11. (Canceled)

12. (Previously Presented) The process for producing precipitated calcium carbonate according to claim 9, wherein the calcium hydroxide provided in step (a) is produced by the steps comprising:

- i) mixing calcium oxide and water in amounts sufficient to react to form calcium hydroxide substantially free of water; and
- ii) maintaining the mixture at an elevated temperature for a time sufficient to hydrate the calcium oxide to form calcium hydroxide having at least about 92 weight percent solids.

13. (Original) The process according to claim 12, wherein the step of maintaining the mixture at an elevated temperature is performed at a temperature of up to about 600 degrees Fahrenheit for a time sufficient to hydrate the calcium oxide to form calcium hydroxide having at least about a 95 weight percent conversion to calcium hydroxide.

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14. (Original) The process according to claim 13, wherein the step of maintaining the mixture at an elevated temperature is performed for a time sufficient to hydrate the calcium oxide to form calcium hydroxide having at least about a 98 weight percent conversion to calcium hydroxide.

15. (Original) The process according to claim 9, wherein the steps of carbonating and comminuting are performed until at least a 95 weight percent conversion to calcium carbonate is achieved.

16. (Original) The process according to claim 15, wherein the steps of carbonating and comminuting are performed until at least a 97 weight percent conversion to calcium carbonate is achieved.

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Canceled)